

Please type a plus sign (+) inside this box [ + ]

Approved for use through 09/30/00. OMB 0651-0032  
Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

**UTILITY  
PATENT APPLICATION  
TRANSMITTAL**

(Only for new nonprovisional applications under 37 CFR 1.53(b))

Attorney Docket No.	488-00066	Total Pages	47
First Named Inventor or Application Identifier			
Tomoki Inoue			
Express Mail Label No.	EV383667668US		

**APPLICATION ELEMENTS**

See MPEP chapter 600 concerning utility patent application contents

**ADDRESS TO:** Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

1. ☒ Fee Transmittal Form  
(Submit an original, and a duplicate for fee processing)
2. ☒ Specification [Total Pages **28**]  
(preferred arrangement set forth below)
  - Descriptive title of the Invention
  - Cross References to Related Applications
  - Statement Regarding Fed sponsored R & D
  - Reference to Microfiche Appendix
  - Background of the Invention
  - Brief Summary of the Invention
  - Brief Description of the Drawings (if filed)
  - Detailed Description
  - Claim(s)
  - Abstract of the Disclosure
3. ☒ Drawing(s) (35 USC 113) [Total Sheets **13**]
4. Oath or Declaration [Total Pages **3**]
  - a. ☒ Newly executed (original or copy)
  - b. ☐ Copy from a prior application (37 CFR 1.63(d))  
(for continuation/divisional with Box 17 completed)  
[Note Box 5 below]
    - i. ☐ **DELETION OF INVENTOR(S)**  
Signed statement attached deleting inventor(s) named in the prior application, see 37 CFR 1.63(d)(2) and 1.33(b).
5. ☐ Incorporation By Reference (useable if Box 4b is checked). The entire disclosure of the prior application, from which a copy of the oath or declaration is supplied under Box 4b, is considered as being part of the disclosure of the accompanying application and is hereby incorporated by reference therein.

6. ☐ Microfiche Computer Program (Appendix)
7. Nucleotide and/or Amino Acid Sequence Submission (if applicable, all necessary)
  - a. ☐ Computer Readable Copy
  - b. ☐ Paper Copy (identical to computer copy)
  - c. ☐ Statement verifying identify of above copies

**ACCOMPANYING APPLICATION PARTS**

8. ☐ Assignment Papers (cover sheet & document(s))
9. ☐ 37 CFR 3.73(b) Statement ☐ Power of Attorney  
(when there is an assignee)
10. ☐ English Translation Document (if applicable)
11. ☐ Information Disclosure ☐ Copies of IDS  
Statement (IDS)/PTO-1449 Citations
12. ☐ Preliminary Amendment
13. ☒ Return Receipt Postcard (MPEP 503)  
(Should be specifically itemized)
14. ☐ Small Entity ☐ Statement filed in prior  
Statement(s) application, Status still proper  
and desired
15. ☐ Certified Copy of Priority Document(s)  
(if foreign priority is claimed)
16. ☐ Other: Certificate of Express Mail  
.....

17. If a CONTINUING APPLICATION, check appropriate box and supply the requisite information:

☐ Continuation ☐ Divisional ☐ Continuation-in-part (CIP) of prior application No.: \_\_\_\_\_

**18. CORRESPONDENCE ADDRESS**

NAME	Joseph J. Jochman, Reg. No. 25,058				
	ANDRUS, SCEALES, STARKE & SAWALL, LLP				
ADDRESS	100 East Wisconsin Avenue				
	Suite 1100				
CITY	Milwaukee	STATE	Wisconsin	ZIP CODE	53202-4178
COUNTRY	U.S.A.	TELEPHONE	(414) 271-7590	FAX	(414) 271-5770

CERTIFICATE OF EXPRESS MAIL

This is to certify that this correspondence is being deposited with the United States Postal Service as EXPRESS MAIL POST OFFICE TO ADDRESSEE in an envelope addressed to Commissioner of Patents and Trademarks, Washington D.C., 20231 on January 30, 2004. The Express Label is EV383667668US.

Barbara A. Johnson  
Name

January 30, 2004  
Date

Barbara A. Johnson  
Signature

1-30-04  
Date

PTO/SB/17 (10/97)  <div style="text-align: center; font-weight: bold; font-size: 1.2em;">FEE TRANSMITTAL</div>		<div style="text-align: center; font-weight: bold; font-size: 0.8em;">COMPLETE IF KNOWN</div> <table border="1" style="width:100%; border-collapse: collapse;"> <tr><td style="width:50%;">Application Number</td><td style="width:50%;"></td></tr> <tr><td>Filing Date</td><td>1/30/2004</td></tr> <tr><td>First Named Inventor</td><td>Tomoki Inoue</td></tr> <tr><td>Group Art Unit</td><td></td></tr> <tr><td>Examiner Name</td><td></td></tr> </table>		Application Number		Filing Date	1/30/2004	First Named Inventor	Tomoki Inoue	Group Art Unit		Examiner Name																																																																																																			
Application Number																																																																																																															
Filing Date	1/30/2004																																																																																																														
First Named Inventor	Tomoki Inoue																																																																																																														
Group Art Unit																																																																																																															
Examiner Name																																																																																																															
Total Amount of Payment (\$ 770.00)		Attorney Docket Number 488-00066																																																																																																													
<b>METHOD OF PAYMENT</b> (check one)		<b>FEE CALCULATION</b> (continued)																																																																																																													
1. <input checked="" type="checkbox"/> The Commissioner is hereby authorized to charge indicated fees and credit any over payments to:  Deposit Account Number <span style="border: 1px solid black; padding: 2px;">01.2000</span>  Deposit Account Name <span style="border: 1px solid black; padding: 2px;">Andrus, Scales, Starke &amp; Sawall, LLP</span>  <input checked="" type="checkbox"/> Charge any additional fee required under 37 CFR 1.16 and 1.17 <input type="checkbox"/> Charge the Issue Fee set in 37 CFR 1.18 at the Mailing Of the Notice of Allowance, 37 CFR 1.311(b)		2. <b>Additional Fees</b> <table border="1" style="width:100%; border-collapse: collapse; font-size: 0.8em;"> <thead> <tr> <th>Large Entity Fee Code (\$)</th> <th>Small Entity Fee Code (\$)</th> <th>Fee Description</th> <th>Fee Paid</th> </tr> </thead> <tbody> <tr><td>105 130</td><td>205 65</td><td>Surcharge-late filing fee or oath</td><td>_____</td></tr> <tr><td>127 50</td><td>227 25</td><td>Surcharge-late provisional filing fee or cover sheet</td><td>_____</td></tr> <tr><td>139 130</td><td>139 130</td><td>Non-English specification</td><td>_____</td></tr> <tr><td>147 2,520</td><td>147 2,520</td><td>For filing a request for reexamination</td><td>_____</td></tr> <tr><td>112 920*</td><td>112 920*</td><td>Requesting publication of SIR prior to Examiner action</td><td>_____</td></tr> <tr><td>113 1,840*</td><td>113 1,840*</td><td>Requesting publication of SIR after Examiner action</td><td>_____</td></tr> <tr><td>115 110</td><td>215 55</td><td>Extension for response within first month</td><td>_____</td></tr> <tr><td>116 400</td><td>216 200</td><td>Extension for response within second month</td><td>_____</td></tr> <tr><td>117 950</td><td>217 475</td><td>Extension for response within third month</td><td>_____</td></tr> <tr><td>118 1,510</td><td>218 755</td><td>Extension for response within fourth month</td><td>_____</td></tr> <tr><td>128 2,060</td><td>228 1,030</td><td>Extension for response within fifth month</td><td>_____</td></tr> <tr><td>119 310</td><td>219 155</td><td>Notice of appeal</td><td>_____</td></tr> <tr><td>120 310</td><td>220 155</td><td>Filing a brief in support of an appeal</td><td>_____</td></tr> <tr><td>121 270</td><td>221 135</td><td>Request for oral hearing</td><td>_____</td></tr> <tr><td>138 1,510</td><td>138 1,510</td><td>Petition to institute a public use proceeding</td><td>_____</td></tr> <tr><td>140 110</td><td>240 55</td><td>Petition to revive unavoidably abandoned application</td><td>_____</td></tr> <tr><td>141 1,320</td><td>241 660</td><td>Petition to revive unintentionally abandoned application</td><td>_____</td></tr> <tr><td>142 1,320</td><td>242 660</td><td>Utility issue fee (or reissue)</td><td>_____</td></tr> <tr><td>143 450</td><td>243 225</td><td>Design issue fee</td><td>_____</td></tr> <tr><td>144 670</td><td>244 335</td><td>Plant issue fee</td><td>_____</td></tr> <tr><td>122 130</td><td>122 130</td><td>Petitions to the Commissioner</td><td>_____</td></tr> <tr><td>123 50</td><td>123 50</td><td>Petitions related to provisional applications</td><td>_____</td></tr> <tr><td>126 240</td><td>126 240</td><td>Submission of Information Disclosure Statement</td><td>_____</td></tr> <tr><td>581 40</td><td>581 40</td><td>Recording each patent assignment per property (times number of properties)</td><td>_____</td></tr> <tr><td>146 790</td><td>246 395</td><td>Filing a submission after final rejection (37 CFR 1.129(a))</td><td>_____</td></tr> <tr><td>149 790</td><td>249 395</td><td>For each additional invention to be examined (37 CFR 1.129(b))</td><td>_____</td></tr> </tbody> </table>		Large Entity Fee Code (\$)	Small Entity Fee Code (\$)	Fee Description	Fee Paid	105 130	205 65	Surcharge-late filing fee or oath	_____	127 50	227 25	Surcharge-late provisional filing fee or cover sheet	_____	139 130	139 130	Non-English specification	_____	147 2,520	147 2,520	For filing a request for reexamination	_____	112 920*	112 920*	Requesting publication of SIR prior to Examiner action	_____	113 1,840*	113 1,840*	Requesting publication of SIR after Examiner action	_____	115 110	215 55	Extension for response within first month	_____	116 400	216 200	Extension for response within second month	_____	117 950	217 475	Extension for response within third month	_____	118 1,510	218 755	Extension for response within fourth month	_____	128 2,060	228 1,030	Extension for response within fifth month	_____	119 310	219 155	Notice of appeal	_____	120 310	220 155	Filing a brief in support of an appeal	_____	121 270	221 135	Request for oral hearing	_____	138 1,510	138 1,510	Petition to institute a public use proceeding	_____	140 110	240 55	Petition to revive unavoidably abandoned application	_____	141 1,320	241 660	Petition to revive unintentionally abandoned application	_____	142 1,320	242 660	Utility issue fee (or reissue)	_____	143 450	243 225	Design issue fee	_____	144 670	244 335	Plant issue fee	_____	122 130	122 130	Petitions to the Commissioner	_____	123 50	123 50	Petitions related to provisional applications	_____	126 240	126 240	Submission of Information Disclosure Statement	_____	581 40	581 40	Recording each patent assignment per property (times number of properties)	_____	146 790	246 395	Filing a submission after final rejection (37 CFR 1.129(a))	_____	149 790	249 395	For each additional invention to be examined (37 CFR 1.129(b))	_____
Large Entity Fee Code (\$)	Small Entity Fee Code (\$)	Fee Description	Fee Paid																																																																																																												
105 130	205 65	Surcharge-late filing fee or oath	_____																																																																																																												
127 50	227 25	Surcharge-late provisional filing fee or cover sheet	_____																																																																																																												
139 130	139 130	Non-English specification	_____																																																																																																												
147 2,520	147 2,520	For filing a request for reexamination	_____																																																																																																												
112 920*	112 920*	Requesting publication of SIR prior to Examiner action	_____																																																																																																												
113 1,840*	113 1,840*	Requesting publication of SIR after Examiner action	_____																																																																																																												
115 110	215 55	Extension for response within first month	_____																																																																																																												
116 400	216 200	Extension for response within second month	_____																																																																																																												
117 950	217 475	Extension for response within third month	_____																																																																																																												
118 1,510	218 755	Extension for response within fourth month	_____																																																																																																												
128 2,060	228 1,030	Extension for response within fifth month	_____																																																																																																												
119 310	219 155	Notice of appeal	_____																																																																																																												
120 310	220 155	Filing a brief in support of an appeal	_____																																																																																																												
121 270	221 135	Request for oral hearing	_____																																																																																																												
138 1,510	138 1,510	Petition to institute a public use proceeding	_____																																																																																																												
140 110	240 55	Petition to revive unavoidably abandoned application	_____																																																																																																												
141 1,320	241 660	Petition to revive unintentionally abandoned application	_____																																																																																																												
142 1,320	242 660	Utility issue fee (or reissue)	_____																																																																																																												
143 450	243 225	Design issue fee	_____																																																																																																												
144 670	244 335	Plant issue fee	_____																																																																																																												
122 130	122 130	Petitions to the Commissioner	_____																																																																																																												
123 50	123 50	Petitions related to provisional applications	_____																																																																																																												
126 240	126 240	Submission of Information Disclosure Statement	_____																																																																																																												
581 40	581 40	Recording each patent assignment per property (times number of properties)	_____																																																																																																												
146 790	246 395	Filing a submission after final rejection (37 CFR 1.129(a))	_____																																																																																																												
149 790	249 395	For each additional invention to be examined (37 CFR 1.129(b))	_____																																																																																																												
3. <input checked="" type="checkbox"/> Payment Enclosed: <input checked="" type="checkbox"/> Check <input type="checkbox"/> Money Order <input type="checkbox"/> Other		Other fee (specify) _____  Other fee (specify) _____																																																																																																													
<b>FEE CALCULATION</b> (fees effective 10/01/97)		<b>SUBTOTAL (3)</b> (\$ 0)																																																																																																													
1. <b>Filing Fee</b> <table border="1" style="width:100%; border-collapse: collapse; font-size: 0.8em;"> <thead> <tr> <th>Large Entity Fee Code (\$)</th> <th>Small Entity Fee Code (\$)</th> <th>Fee Description</th> <th>Fee Paid</th> </tr> </thead> <tbody> <tr><td>101 770</td><td>201 385</td><td>Utility filing fee</td><td>\$770</td></tr> <tr><td>106 340</td><td>206 170</td><td>Design filing fee</td><td>_____</td></tr> <tr><td>107 530</td><td>207 265</td><td>Plant filing fee</td><td>_____</td></tr> <tr><td>108 770</td><td>208 385</td><td>Reissue filing fee</td><td>_____</td></tr> <tr><td>114 160</td><td>214 80</td><td>Provisional filing fee</td><td>_____</td></tr> </tbody> </table>		Large Entity Fee Code (\$)	Small Entity Fee Code (\$)	Fee Description	Fee Paid	101 770	201 385	Utility filing fee	\$770	106 340	206 170	Design filing fee	_____	107 530	207 265	Plant filing fee	_____	108 770	208 385	Reissue filing fee	_____	114 160	214 80	Provisional filing fee	_____	2. <b>Claims</b> <table border="1" style="width:100%; border-collapse: collapse; font-size: 0.8em;"> <thead> <tr> <th>Large Entity Fee Code (\$)</th> <th>Small Entity Fee Code (\$)</th> <th>Fee Description</th> <th>Fee Paid</th> </tr> </thead> <tbody> <tr><td>103 18</td><td>203 9</td><td>Claims in excess of 20</td><td>_____</td></tr> <tr><td>102 78</td><td>202 39</td><td>Independent claims in excess of 3</td><td>_____</td></tr> <tr><td>104 270</td><td>204 135</td><td>Multiple dependent claim</td><td>_____</td></tr> <tr><td>109 82</td><td>209 41</td><td>Reissue independent claims over original patent</td><td>_____</td></tr> <tr><td>110 22</td><td>210 11</td><td>Reissue claims in excess of 20 and over original patent</td><td>_____</td></tr> </tbody> </table>		Large Entity Fee Code (\$)	Small Entity Fee Code (\$)	Fee Description	Fee Paid	103 18	203 9	Claims in excess of 20	_____	102 78	202 39	Independent claims in excess of 3	_____	104 270	204 135	Multiple dependent claim	_____	109 82	209 41	Reissue independent claims over original patent	_____	110 22	210 11	Reissue claims in excess of 20 and over original patent	_____																																																												
Large Entity Fee Code (\$)	Small Entity Fee Code (\$)	Fee Description	Fee Paid																																																																																																												
101 770	201 385	Utility filing fee	\$770																																																																																																												
106 340	206 170	Design filing fee	_____																																																																																																												
107 530	207 265	Plant filing fee	_____																																																																																																												
108 770	208 385	Reissue filing fee	_____																																																																																																												
114 160	214 80	Provisional filing fee	_____																																																																																																												
Large Entity Fee Code (\$)	Small Entity Fee Code (\$)	Fee Description	Fee Paid																																																																																																												
103 18	203 9	Claims in excess of 20	_____																																																																																																												
102 78	202 39	Independent claims in excess of 3	_____																																																																																																												
104 270	204 135	Multiple dependent claim	_____																																																																																																												
109 82	209 41	Reissue independent claims over original patent	_____																																																																																																												
110 22	210 11	Reissue claims in excess of 20 and over original patent	_____																																																																																																												
<b>SUBTOTAL (1)</b> (\$ 770.00)		<b>SUBTOTAL (2)</b> (\$ 0)																																																																																																													
Total claims <u>4</u> - 20 = <u>0</u> X _____ = _____ Independent <u>1</u> - 3 = <u>0</u> X _____ = _____ Claims Multiple Dependent _____ X _____ = _____ Claims Large Entity Fee Fee Fee Description Code (\$ Code (\$ Code (\$		*Reduced by Basic Filing Fee Paid																																																																																																													
<b>SUBMITTED BY</b>		<b>COMPLETE (if applicable)</b>																																																																																																													
Type or Printed name Joseph J. Jochman Andrus, Scales, Starke & Sawall, LLP		Registration Number 25,058																																																																																																													
Signature		Date 1/30/2004      Deposit Account User ID																																																																																																													

013004